

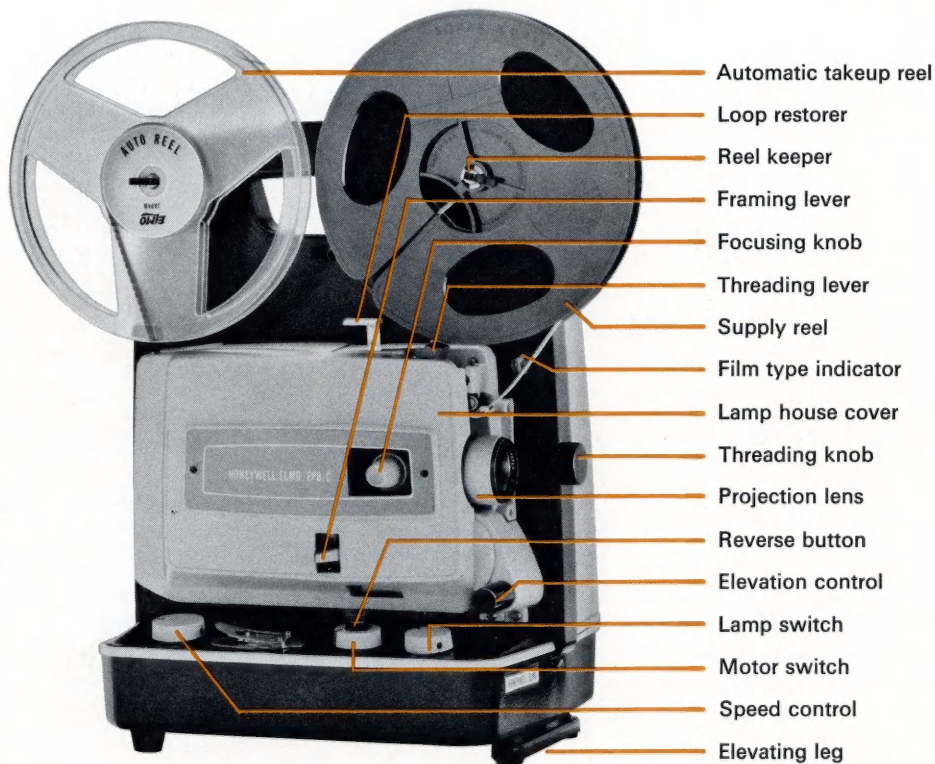
**how to use  
your  
Honeywell Elmo  
Dual-8 Projector  
Model FP8-C**

## **OPEN THIS FLAP OF YOUR INSTRUCTION BOOKLET**

Keep this flap open as you read through the instructions. This will allow quick reference to the working parts of your new Honeywell Elmo FP8-C projector. Familiarity with these parts will assure success at your very first show.

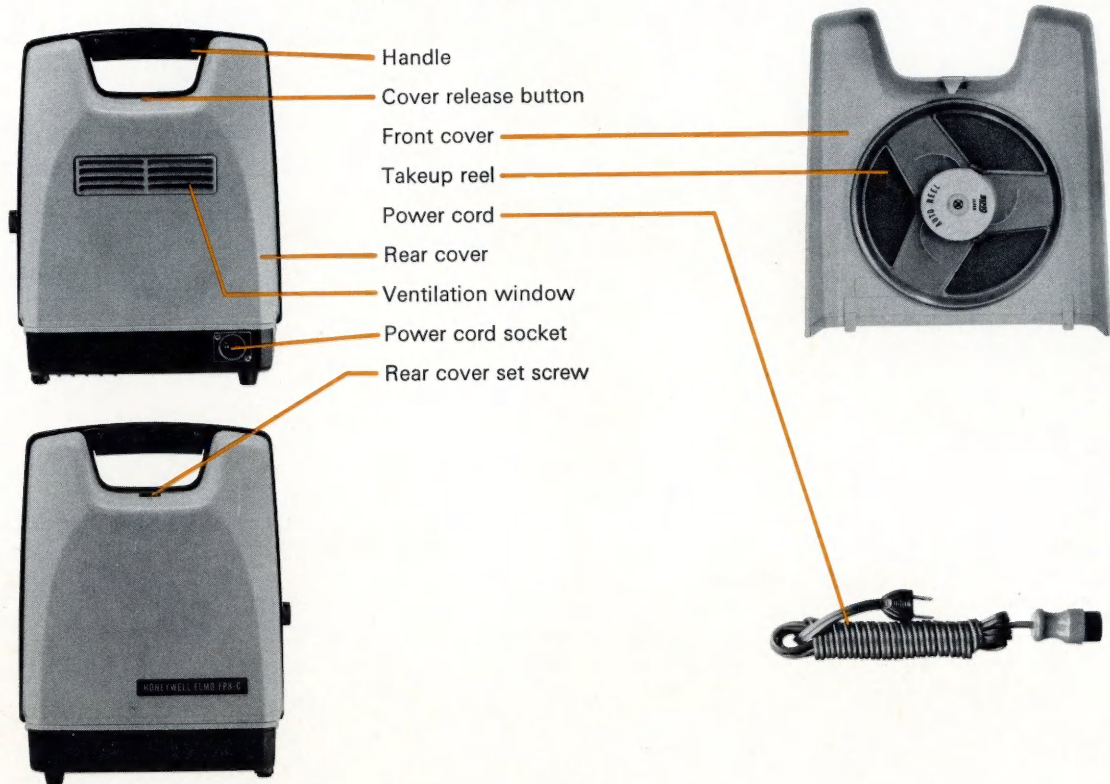
## **contents**

Nomenclature. . . . .	Page 1
Important . . . . .	Page 2
Condensed Operating Instructions. . .	Page 3
Preparation for Projection . . . . .	Page 4
Threading the Film. . . . .	Page 5
Projection . . . . .	Page 6
Reverse Projection. . . . .	Page 7
When Projection is Completed . . . .	Page 8
Maintenance of the Projector. . . .	Page 9-10
Warranty Policy . . . . .	Page 11
Specifications. . . . .	Page 12





To remove the front cover, depress the cover release button and pull the top of the cover away from the projector. Inside are the items illustrated below.

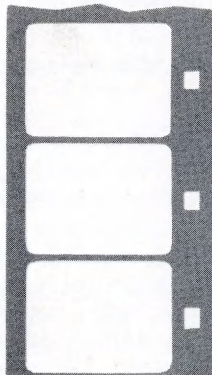


# IMPORTANT

Your Honeywell Elmo Dual-8 Projector will accommodate both Super 8 and regular 8mm film. Before using it, be sure it is adjusted to accept whichever type of film you are projecting. The procedure, which is described on page 4, is simple. *If it is not followed, serious damage to the film will result.*

The reason for the selective sprocket system of the Dual-8 Projector is illustrated by these two drawings. When compared with ordinary type 8mm film, Super 8 is approximately 50% larger in picture frame area. This is accomplished by making the sprocket holes smaller, and by positioning the perforations differently than in ordinary 8mm film. The push-button changeover mechanism of the Dual-8 will position the projector for smooth, brilliant projection of either type film.

**Super-8 film**



**Ordinary film**



# condensed operating instructions

This is a condensed check list only. For trouble-free operation and best projection results, be sure to read this book carefully before operating your projector.

1. Place the projector on a stand or table a suitable distance from the screen.
2. Plug in the power cord.
3. Attach the Auto Reel to the rear takeup spindle and the reel of film to be shown to the front spindle.
4. Select the proper threading position for Super 8 or regular film by pushing in the appropriate shaft (see page 4). When the selective sprocket system is set for Super 8 projection, the letter S appears in the indicator window; for regular

8mm projection, the letter R appears in the window.

5. Push the green threading lever down (toward the lens).
6. Trim the end of the film leader with the film cutter (see page 5) and insert the end of the film leader into the threading slot. The film will thread automatically to the takeup reel, at which time the projection lamp will turn on.
7. Turn the motor switch to RUN and the lamp switch to ON.
8. Once projection begins, adjust the following, if necessary:
  - A. Focus (by turning the focusing knob).
  - B. Projection speed (with the speed control).
  - C. Framing (with the framing lever).
  - D. Image size on the screen (if your projector is equipped with a zoom lens).
9. When the complete roll of film has been projected, rewind the film as follows:
  - A. Turn off the lamp and motor.
  - B. Insert film end into slot on supply reel.
  - C. Turn speed control knob to HIGH.
  - D. Push in the reverse button while turning the motor switch to RUN. The film will now be rewound at high speed.
  - E. Turn the motor switch off.

# preparing for projection

## Setting up the projector

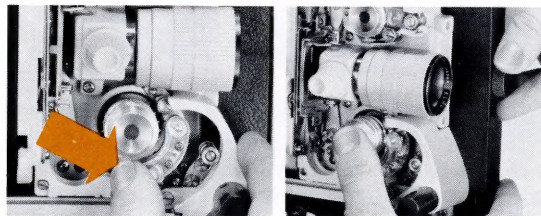
After taking off the dust cover, remove the front cover of the projector by pulling it outward while depressing the cover release button. Then plug the power cord into the receptacle on back of the projector (making certain that the red dot on the plug is indexed below the red dot above the socket), and the other end into a convenient AC outlet. Remove the takeup reel from inside the projector cover and put it on the rear spindle of the projector; lock it into place by flipping down the plastic keeper.

## Positioning the Selective Sprocket System

### IMPORTANT

Before doing anything else, set the selective sprocket system of the projector into the proper position for the film you will be projecting:

1. Open the lamp house cover by pulling it outward from the front (projection lens) edge.



2. Open both sprocket shoes by means of the orange release knobs; pull up on the upper knob and push down on the lower knob.

3. For Super 8 projection, push in the upper (red) sprocket shaft. The letter S will appear in the indicator window.

4. For regular 8mm projection, push in the lower (black) sprocket shaft. The letter R will appear in the window.

(NOTE: The sprocket shaft must be pushed in firmly until it seats all the way, at which point the appropriate letter will be clearly centered in the window. If the shaft resists, keep pressure on it while turning the threading knob slowly toward you, in a counter-clockwise direction.)

5. Close the sprocket shoes by pushing the orange release knobs back into their original positions. The film will not thread unless this is done.

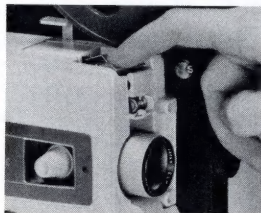


## threading the film

Put the reel of film on the forward spindle and lock it into place with the keeper. The supply reel spindle will accommodate both the large-bore Super 8 film reel and the small-bore reel of regular 8mm film. The one-half inch bore of the Super 8 reel fits over the entire spindle shaft, including the spring-loaded trisected portion. When a regular spool is put on the spindle, the trisected shaft is pushed back, allowing the bore of the reel to fit the smaller diameter of the basic shaft. Because of this arrangement, the supply reel spindle accepts any type of reel with a capacity of up to 400 feet of film, whether it is metal or plastic, and even if there is a variance in size, thickness, and reel bore diameter.

**NOTE:** The reel supplied by processors with Super 8 film cannot be used on the takeup spindle.

To insure smooth, automatic threading, the end of the leader or film should be trimmed with the film cutter provided. This is located on the control panel between the variable speed and the motor switch controls. Place the leading edge of the film in the cutter (in the direction indicated by the arrow on the cutter) and trim off the edge.



Next, pull the green threading lever down—toward the projection lens—to position the automatic threading system. Turn the motor switch to RUN and the lamp switch to ON. Then insert the end of the film into the threading slot identified by the red arrow above the projection lens. The film will now be threaded automatically and carried to the takeup reel, at which time the projection lamp will automatically turn on.



# projection

When the projected image appears on the screen, check the following points:

**1. Focus.** Is the image sharp? If not, bring it into focus by turning the focusing knob.

**2. Image Stability.** Is the picture smooth and steady, or does it flicker? If it does, adjust the speed control knob until the image is satisfactory. If the film loop provided by the automatic threading system is lost during projection due to an improper splice or other reason, it can be instantly restored by pushing down on the loop restorer. Loss of the loop results in a "jumpy," improperly framed picture accompanied by noisy projection.

**3. Framing.** Is the entire frame properly projected, without showing a frame line? If not, move the framing lever up or down to correct.

**4. Image Alignment.** If the projected image is not centered vertically on the screen, turn the elevation control knob counterclockwise and move the front of the projector up or down until it is properly aligned. Then tighten the knob.

If your projector is equipped with the 20mm-32mm zoom lens, you may also vary the size of the image on the screen without changing the projector-to-screen distance. Simply rotate the knurled ring of the lens in either direction until the image size is where you want it. Then re-focus the lens with the focusing knob.

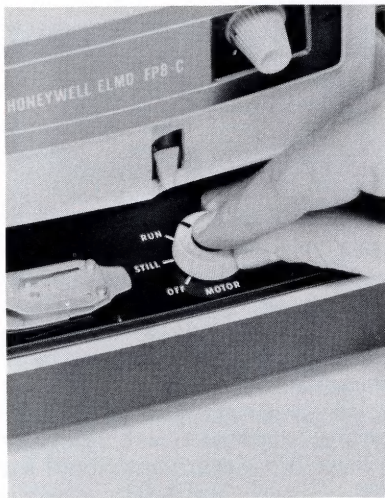
## reverse projection

The projector may be put into reverse operation at any time during projection by following this procedure:

1. Turn off the motor.
2. Depress the reverse button and, while holding it down, turn the motor switch knob to RUN.
3. After completing reverse projection, turn the motor switch to OFF before resuming normal forward projection.

### Single Frame Still Projection

During projection, you may wish to stop the movie to show a single frame. This may be done by turning the motor switch to STILL. Sometimes the film will stop in the middle of a frame, or even when the aperture is closed. When this happens, simply turn the threading knob until the full frame is projected on the screen. Since the Dual-8 Projector has an excellent cooling system, prolonged still projection is possible without harming the film.





## when projection is completed

After the film has been projected and wound completely on the takeup reel, turn off the lamp and the motor, in that order. Because the lamp is adequately cooled during projection, there is no need to leave the motor running for a period of time after the lamp has been turned off.

### **Rewinding the Film**

To wind the film back on the supply reel:

1. Insert the end of the film into the slot of the supply reel hub.
2. Turn the speed control knob to the high position.
3. Push down the reverse button in the center of the motor switch and turn the switch to RUN. The film will be rewound at high speed.



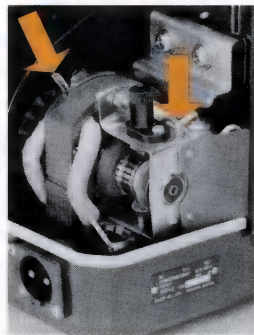
# maintenance of the projector

Follow the simple procedures described on this page and page 10 to keep your projector in top operating condition. With proper care, it will give you a lifetime of trouble-free service.

## Replacing the Projection Lamp

*First unplug the power cord.* Then swing open the lamp house cover and remove the lamp house. This is done by depressing the lamp house release spring and pulling the housing outward. Then pull the lamp straight up (*without turning it*) to remove it from its socket.

When inserting the new lamp (type DCA) first line up the four pins of the lamp base with the four holes in the lamp socket. You will position the lamp correctly by placing it in the socket with the built-in reflector facing forward, toward the projection lens. When inserting the lamp, don't use too much pressure—just enough to seat it properly.



## Lubrication

The only part of the projector which should be lubricated after long use is the motor, which is located behind the rear cover. *Before removing the rear cover be sure to unplug the power cord.* The motor should be lubricated by inserting the tip of an oil can spout into the two plastic tubes above the bearings. Three or four drops of a good grade projector or sewing machine oil are sufficient.

## Cleaning

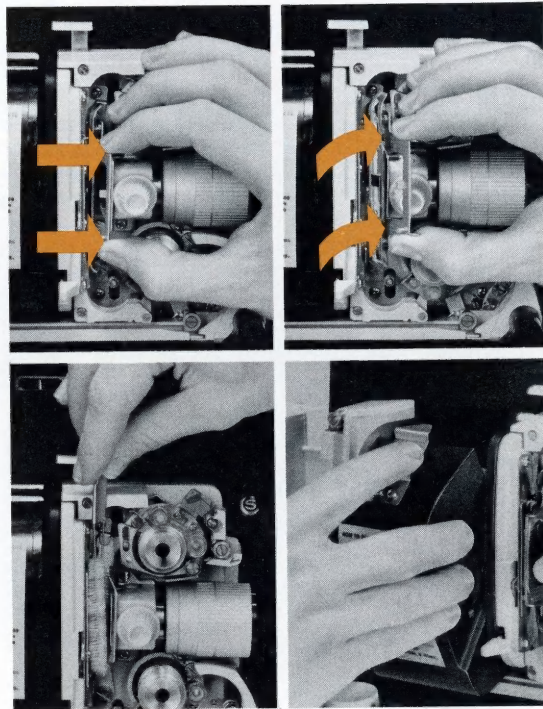
The film gate, which is in continuous contact with the film, is precisely machined to prevent damage to the film. When film dust or other matter adheres to the gate, it may scratch the film or damage it in other ways. From time to time, therefore—especially after heavy use—you should clean the film gate and surrounding area

with a small brush of the type illustrated below. First, remove the pressure plate as follows:

1. Open the pressure plate holder by pushing it to the right. It will stay open in this position.
2. Hold the pressure plate between the thumb and forefinger and lift it up as far as it will go.
3. Pull the pressure plate straight out toward you. Wipe it gently with a soft cloth, and replace it by reversing the above procedure.

Before cleaning the aperture plate, remove the pressure plate as described above. Then inspect the aperture closely to make sure that the film pulling claws are recessed and out of the way. The claws are two tiny pins which become visible in the aperture as you turn the film threading knob. If they are visible, turn the knob until they disappear; then clean the aperture gate. Replace the pressure plate, and close the pressure plate holder.

To clean the projection lens, first remove it by pulling it forward out of its mount. Wipe both the front and rear elements gently with a camel hair brush—do not use excessive pressure.






## WARRANTY POLICY

All Honeywell Elmo Projectors (except the projection lamp) sold in the United States and its possessions are unconditionally guaranteed against defects in material or workmanship for a period of one year after date of delivery to the original retail purchaser. Service will be rendered and defective parts will be replaced without cost to you within the one year time period, provided the projector has not been abused, altered, or operated contrary to instructions. Honeywell shall not be liable for any repairs except those made at authorized Honeywell repair centers or alterations except those made with its written consent, and shall not be liable for damages from delay or loss of use or for other indirect or consequential damages of any kind, whether caused by defective material or workmanship or otherwise; and it is expressly agreed that Honeywell's liability under all guarantees or warranties,

whether expressed or implied, is strictly limited to the correction of defects in material or workmanship as hereinbefore provided. To enable us to properly serve you, the purchase registration card should be filled in COMPLETELY and mailed to Honeywell within five days of purchase. Any projector which proves defective during the one year warranty period should be returned to your Honeywell Photographic Dealer with particulars regarding malfunction and date and place of purchase (including evidence of date and place of purchase if requested by Honeywell). The dealer will forward the projector with particulars to Honeywell. PLEASE DO NOT SEND YOUR PROJECTOR DIRECTLY TO HONEYWELL, as your Honeywell Photographic Dealer will select the authorized Honeywell repair center which will give you the fastest service.

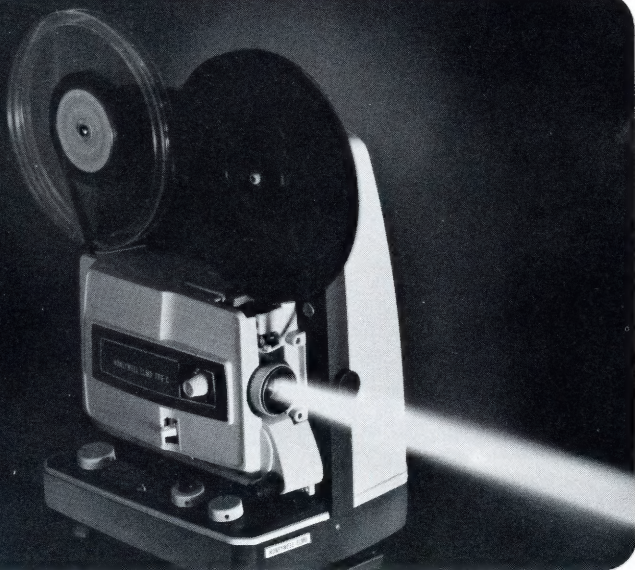
All models, prices and specifications are subject to change without notice.





# SPECIFICATIONS

of the Honeywell Elmo Dual-8 Projector  
(Model FP8-C)



Dimensions: 10" x 12" x 7¼"

Weight: 17.4 pounds

Projection lamp: 21.5v, 150W, with built-in reflector. DCA type

Motor: Series motor

Supply voltage: 115v-120v, 60-cycle nominal

Power cord: 13 feet, detachable

Projection speed: variable from 12 to 24 frames/second

Projection lens: either 25mm f/1.3 or 20-32mm f/1.3 zoom

Reel capacity: 400 feet

Film capability: Super 8 or regular 8mm without changing sprockets

Threading: automatic to takeup reel

Single-frame projection: yes

Reverse projection: yes

Rewind: automatic, high speed

# **Honeywell**

## **PHOTOGRAPHIC**

HONEYWELL PHOTOGRAPHIC, 4800 E. DRY  
CREEK ROAD, DENVER, COLORADO 80217